

CLAIMS

1. A plasma display panel comprising:

a front panel and a rear panel disposed opposing each other, the front panel
5 comprising a display electrode composed of a scan electrode and a sustain
electrode extending in a row direction, and the rear panel comprising an
address electrode extending in a column direction and intersecting the display
electrode,

wherein a plurality of individually divided discharge cells are formed in a
10 part in which the display electrode and the address electrode intersect each
other, and discharge cells neighboring in the column direction of the discharge
cells communicate to each other by a communication portion communicating
the discharge cells in non-parallel to the column direction.

15 2. A plasma display panel comprising:

a front panel and a rear panel disposed opposing each other, the front panel
comprising a display electrode composed of a scan electrode and a sustain
electrode extending in a row direction, and the rear panel comprising an
address electrode extending in a column direction and intersecting the display
20 electrode,

wherein the rear panel comprises a lattice form of barrier ribs of row
direction barrier ribs and column direction barrier ribs, which are equal in
height, forming a plurality of individually divided discharge cells, in a part in
which the display electrode and the address electrode intersect each other; and
25 the row direction barrier ribs of the barrier ribs are provided with
communication portions communicating the neighboring barrier ribs in
non-parallel to the column direction.

3. A plasma display panel comprising:

a front panel and a rear panel disposed opposing each other, the front panel comprising a display electrode composed of a scan electrode and a sustain electrode extending in a row direction, and a dielectric layer covering the display electrode, and the rear panel comprising an address electrode extending
5 in a column direction and intersecting the display electrode;

wherein the rear panel comprises a lattice form of barrier ribs of row direction barrier ribs and column direction barrier ribs, which are equal in height, forming a plurality of individually divided discharge cells, in a part in
10 which the display electrode and the address electrode intersect each other; the dielectric layer has a lattice form of protrusions of row direction protrusions and column direction protrusions, which are equal in height, facing the lattice form of barrier ribs; and the row direction protrusions are provided with communication portions communicating the neighboring discharge cells in
15 non-parallel to the column direction.

4. The plasma display panel according to any of claims 1 to 3, wherein the communication portion is provided obliquely with respect to the column direction.
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5. The plasma display panel according to claim 2, wherein an opening height of the communication portion is the same as the height of the barrier rib.

6. The plasma display panel according to claim 2, wherein the opening
25 height of the communication portion is lower than the height of the barrier rib.

7. The plasma display panel according to claim 3, wherein the opening height of the communication portion is the same as the height of the protrusion.

8. The plasma display panel according to claim 3, wherein the opening height of the communication portion is lower than the height of the protrusion.

5 9. The plasma display panel according to claim 3, wherein a shape of a concave portion formed by being surrounded by the lattice form of protrusions is one shape selected from circle, ellipse and polygon.

10 10. The plasma display panel according any of claims 1 to 9, wherein a mixed gas of Xe and at least one selected from Ne and He is filled in an inner space of the discharge cell, and a partial pressure of Xe is in the range from 5% to 50%.